



CIVIL TECH LABS

Accredited by **NABL** as per ISO/IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com



To,

Assistant Executive Engineer
Yelahanka Sub Division,
BBMP Bangalore.

06th February 2015

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.'**

Please find the enclosed Test Reports of the above.

**Thanking You,
For Civil Tech Labs**


(KHUSHBOO L.)
Quality Manager



AK-2
AK-4



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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka Sub Division, BHMP
Name of Work	Construction of L shape Drain at Korchappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri V. D. Ramesh.
Date of Testing	06/02/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	485	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Kushboo
Lab Incharge
Civil Tech Labs



AK2
07/6/12
AKK



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TEST REPORT

TEST ON FINE AGGREGATES Ref: IS: 383/2356

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. D. Ramesh
Date of Testing	06/02/2015
Specific Gravity	2.55

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS: 383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	97.5	90-100	90-100	90-100	95-100	
	2.36	83.4	60-95	75-100	85-100	95-100	
	1.18	74.2	30-70	55-90	75-100	90-100	
	0.6	46.8	15-34	35-59	60-79	80-100	
	0.3	23.7	5-20	8-30	12-40	15-50	
	0.15	7.9	0-10	0-10	0-10	0-15	

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AEZ
@ 7/2/15
AKK

Kushboo
Lab Incharge
Civil Tech labs



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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015
Specific Gravity	2.68
Water Absorption in %	0.29

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	97.5	95-100	
20	54.3	30-70	
10	24.2	10-35	
4.75	3.7	0-5	

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TEST REPORT

TEST ON COARSE AGGREGATES 20mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015
Specific Gravity	2.63
Water Absorption in %	0.32

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	100	100	Satisfies the requirement
20	97.4	95-100	
10	32.6	25-55	
4.75	7.5	0-10	

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Civil Tech Labs
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TEST REPORT

TESTS ON REINFORCEMENT STEEL BARS 8mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & Rebend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress (N/mm ²)	418	415	Satisfactory
6	U T S (N/mm ²)	522	485	Satisfactory

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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 16 mm

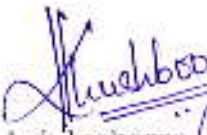
Name & Address of the Customer	AEK, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kandappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Testing	06/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & Re bend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.7	14.5	Satisfactory
5	Yield Stress (N/Sq.mm)	426	415	Satisfactory
6	U T S (N/Sq.mm)	532	485	Satisfactory

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AEK
06/2
AEK


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TEST REPORT

TEST ON REINFORCEMENT STEEL BARS 12mm

Name & Address of the Customer	AEE, Yelahanka Sub Division, BBMP
Name of Work	Construction of L shape Drain at Kondappa layout main road balance portion in Ward No. 02, in Yelahanka sub division.
Name of the Agency	Sri. Y. B. Ramesh
Date of Test	06/02/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & Rebend Test	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.5	14.5	Satisfactory
5	Yield Stress (N/Sq.mm)	422	415	Satisfactory
6	U T S (N/Sq.mm)	527	485	Satisfactory

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